IADS V4.0

Session 21

Bob Zendler
Team IADS

Topics

- Targeted Systems
- Framework Benefits
- A Look Into The Future
- Basic Document View
- Expanded Document Area
- Note Schema
- Note XML File
- Notes
- Bookmarks
- Admin Function
- RPSTL
- Possibilities
- Tree Editor

Targeted Systems

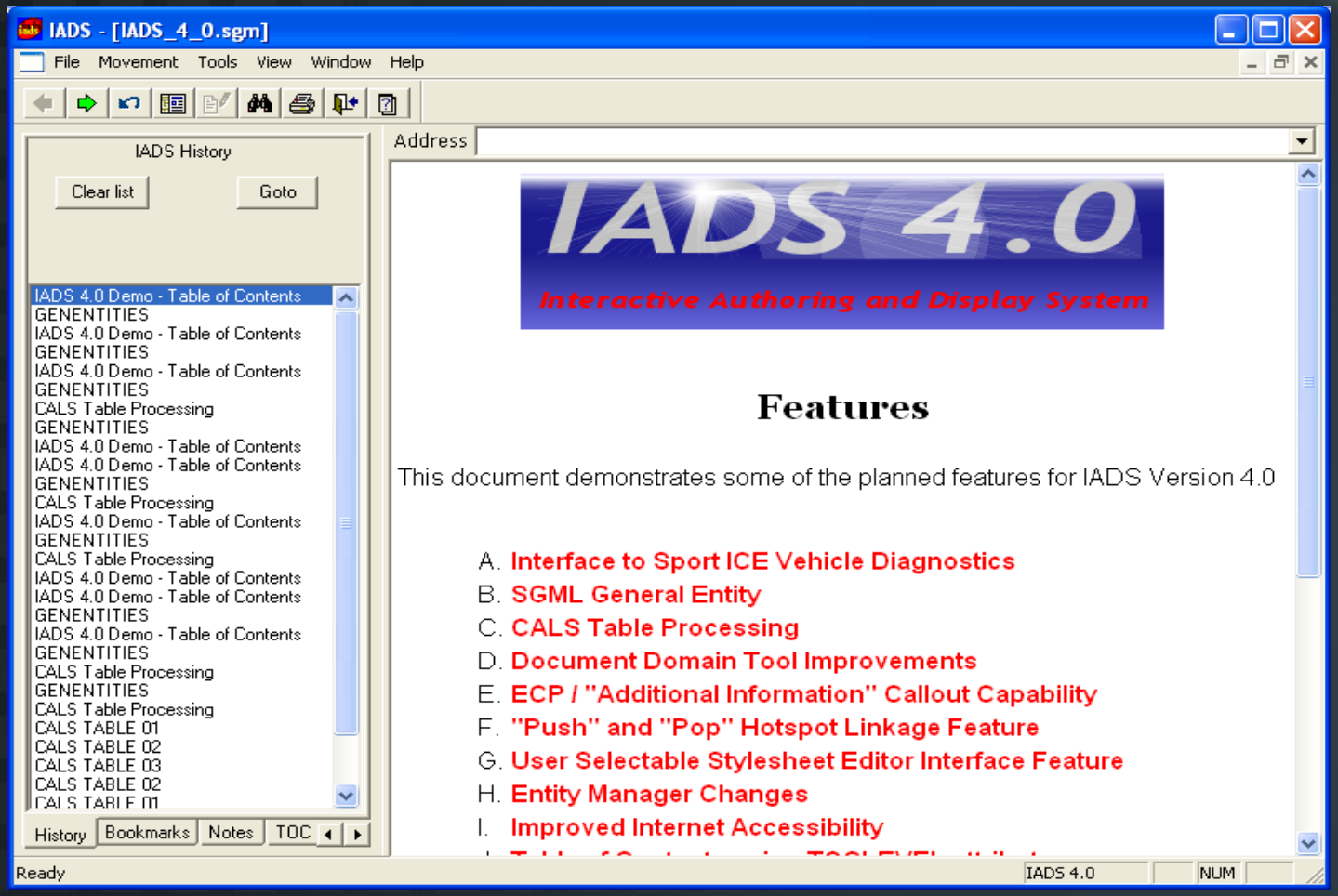
- Desktop Applications running Windows 2000 and Higher utilizing Microsoft .Net Framework 1.1
- Mobile platforms utilizing .Net Compact Framework. (msdn.microsoft.com/embeded/ce.net/processors/supproc)

Framework Benefits

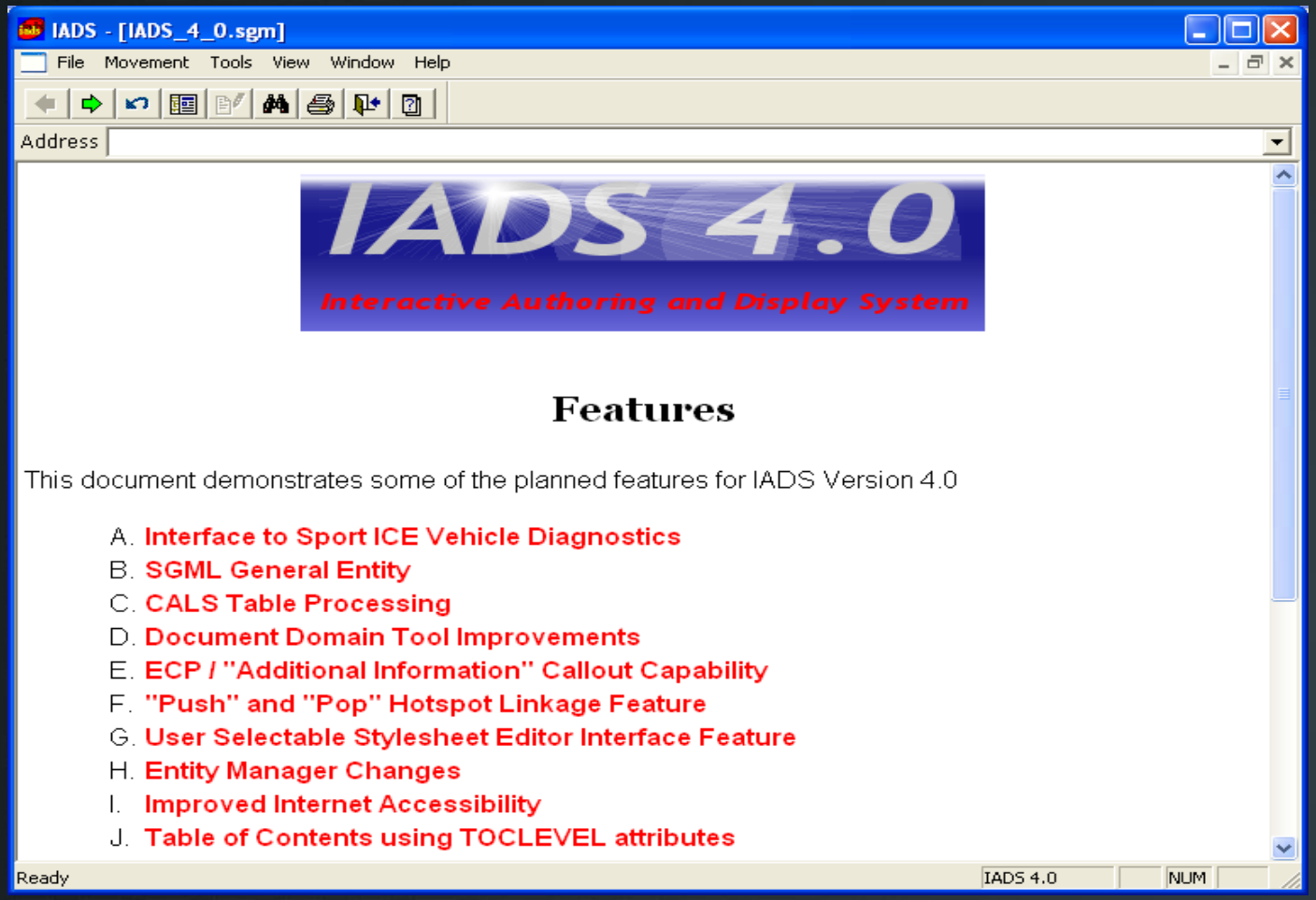
- Controlled Integration
  - Ability to add new functionality
    - Microsoft Foundation Classes
    - Microsoft .Net Framework
  - Current code migration
- Streamlined code
  - More robust development classes
  - Shared Controls/Classes with the Mobile Kit
- Results
  - Lower chance for errors
  - Faster development time
  - More functionality

A Look Into The Future

Basic Document View



Expanded Document Area


IADS - [IADS_4_0.sgm]
File Movement Tools View Window Help
Address
IADS 4.0
Interactive Authoring and Display System
Features
This document demonstrates some of the planned features for IADS Version 4.0
A. Interface to Sport ICE Vehicle Diagnostics
B. SGML General Entity
C. CALS Table Processing
D. Document Domain Tool Improvements
E. ECP / "Additional Information" Callout Capability
F. "Push" and "Pop" Hotspot Linkage Feature
G. User Selectable Stylesheet Editor Interface Feature
H. Entity Manager Changes
I. Improved Internet Accessibility
J. Table of Contents using TOCLEVEL attributes
Ready
IADS 4.0
NUM

Web Access

IADS - [Yahoo!]
File View Window Help
Bookmarks
File
D:\V4.0\DEMO\IADS_4
Frame Title
CALS TABLE 02
CALS TABLE 02
CALS TABLE 03
GENENTITIES
Set
Remove
Goto
Help
Show bookmarks for cur
History
Bookmarks
Address
Personalize
Finance
Shop
YAHOO!
Mail
Messenger
HotJobs
SBC Yahoo! Dial: Big 25MB of email storage. Only $15.95/mo.
Web
Images
Yellow Pages
News
Products
Search the Web:
Yahoo! Search
Advanced
Preferences
New! Beat the tax deadline: File online at Yahoo! Finance.
Shop Auctions, Autos, Classifieds, Real Estate, Shopping, Travel
Find HotJobs, Maps, People Search, Personals, Yellow Pages
Connect Chat, GeoCities, Greetings, Groups, Mail, Messenger, Mobile
Organize Addresses, Briefcase, Calendar, My Yahoo!, PayDirect, Photos
Fun Games, Horoscopes, Kids, Movies, Music, Radio, TV
Info Finance, Health, News, Sports, Weather More Yahoo!...
Make Yahoo! your home page - Yahoo! Toolbar with Pop-Up Blocker
Yahoo! Health Spring Training
Get Fit Now for Summer!
THREE EASY STEPS:
1. Get Prepared
2. Find Workout Activities
3. Estimate Calories Burned
MORE RESOURCES:
Fitness Center
Guide to Getting Fit
More Tools
Personal Assistant
Sign In
Get free email with SpamGuard!
Yahoo! Mail - Sign up now
Yahoo! Sports – The Masters
Leaderboard, Tee Times, TV,
Picks, Latest News, more
In The News
12:14pm CT, Thu Apr 8
Rice says Bush understood al-Qaida threat
Shiite rebels control parts of 3 Iraqi cities
Expert warns on Iraq 'terrorist Disneyland'
Al-Qaida video calls for killing Americans
Afghan city falls to renegade warlord
Indian consulting firm to create jobs in U.S.
Study: Drug lifts good cholesterol level
Markets: Dow 0.0% Nasdaq 0.6%
News - Elections - Sports - Stocks - Weather
IADS 4.0
NUM

Multiple Documents

XML

- IADS 4.0 using XML
  - Notes
  - Bookmarks
  - Admin
  - Critical Safety Messages
  - RPSTL Files
- XML Support
  - Schema validation
  - XPath

Note Schema

```
<xsd:complexType name="NoteType">
   <xsd:sequence>
        <xsd:element name="User" type="NotBlank"
   minOccurs="1" maxOccurs="1"/>
        <xsd:element name="Title" type="NotBlank"
   minOccurs="1" maxOccurs="1"/>
        <xsd:element name="Text" type="NotBlank"
   minOccurs="1" maxOccurs="1" />
   </xsd:sequence>
        <xsd:attribute name="href" type="NotBlank"
   use="required" />
        <xsd:attribute name="csm" type="xsd:boolean"
   use="required"/>
</xsd:complexType>
```

Note XML File

```
<?xml version="1.0" encoding="utf-8"?>
 <IADSNOTES xmlns="notes.xsd" count="1">
 <Note href="D:\V4.0\DEMO\IADS_4_0.sgm#1@0"
  csm="1">
     <User>SmartUser</User>
         <Title>IADS 4.0 Demo - Table of
  Contents</Title>
      <Text>This is a Critical Safety Message for
  frame 1</Text>
  </Note>
</IADSNOTES>
```

XML/Schema Quick Facts

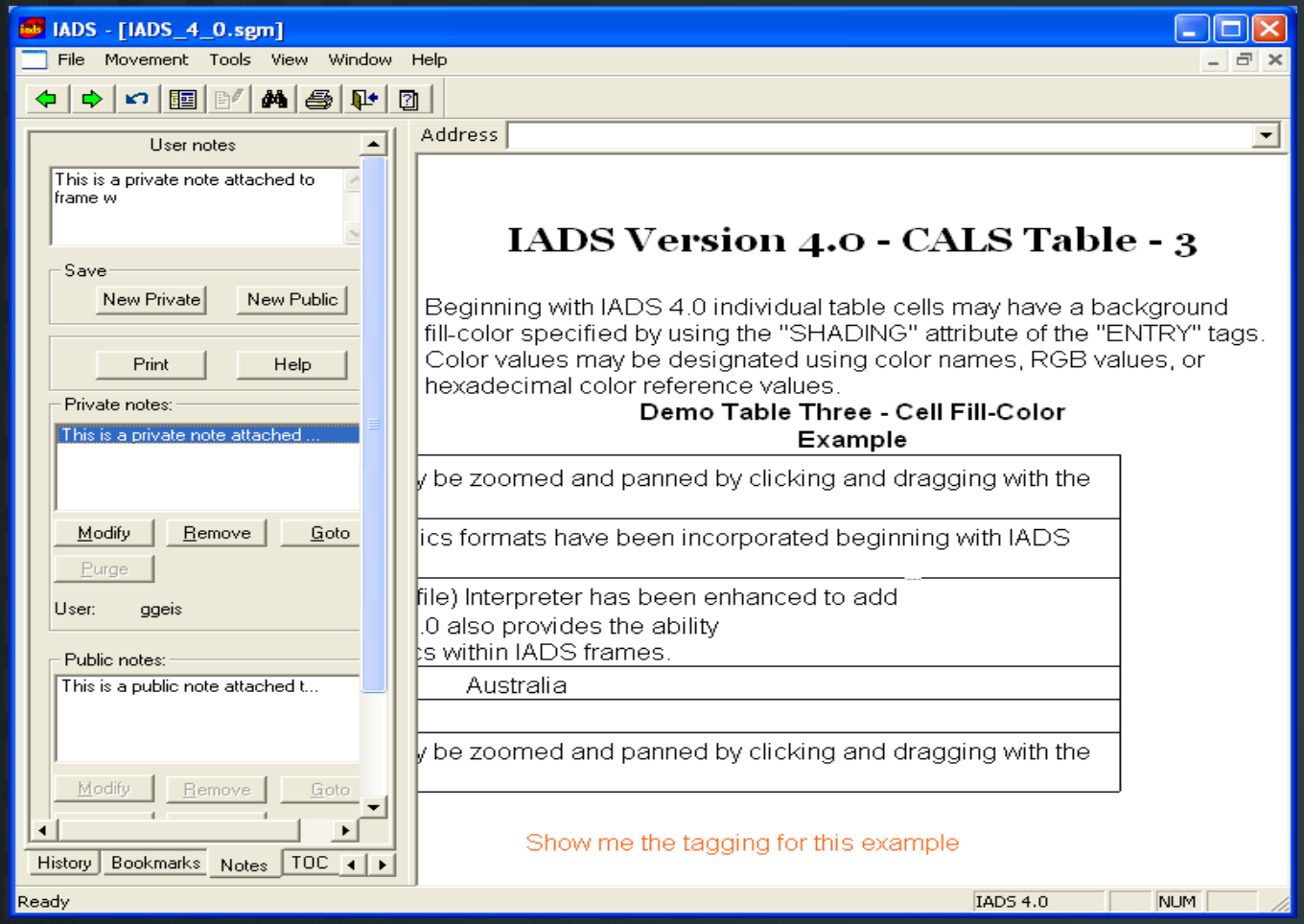
- IADS 3.3
  - 110 Lines of Code to parse notes and validate
  - Scan each line for tags
- IADS 4.0
  - 69 Lines of Code to parse
  - Reusable proven functions
  - Processes like a database record set

IADS 4.0 Validation

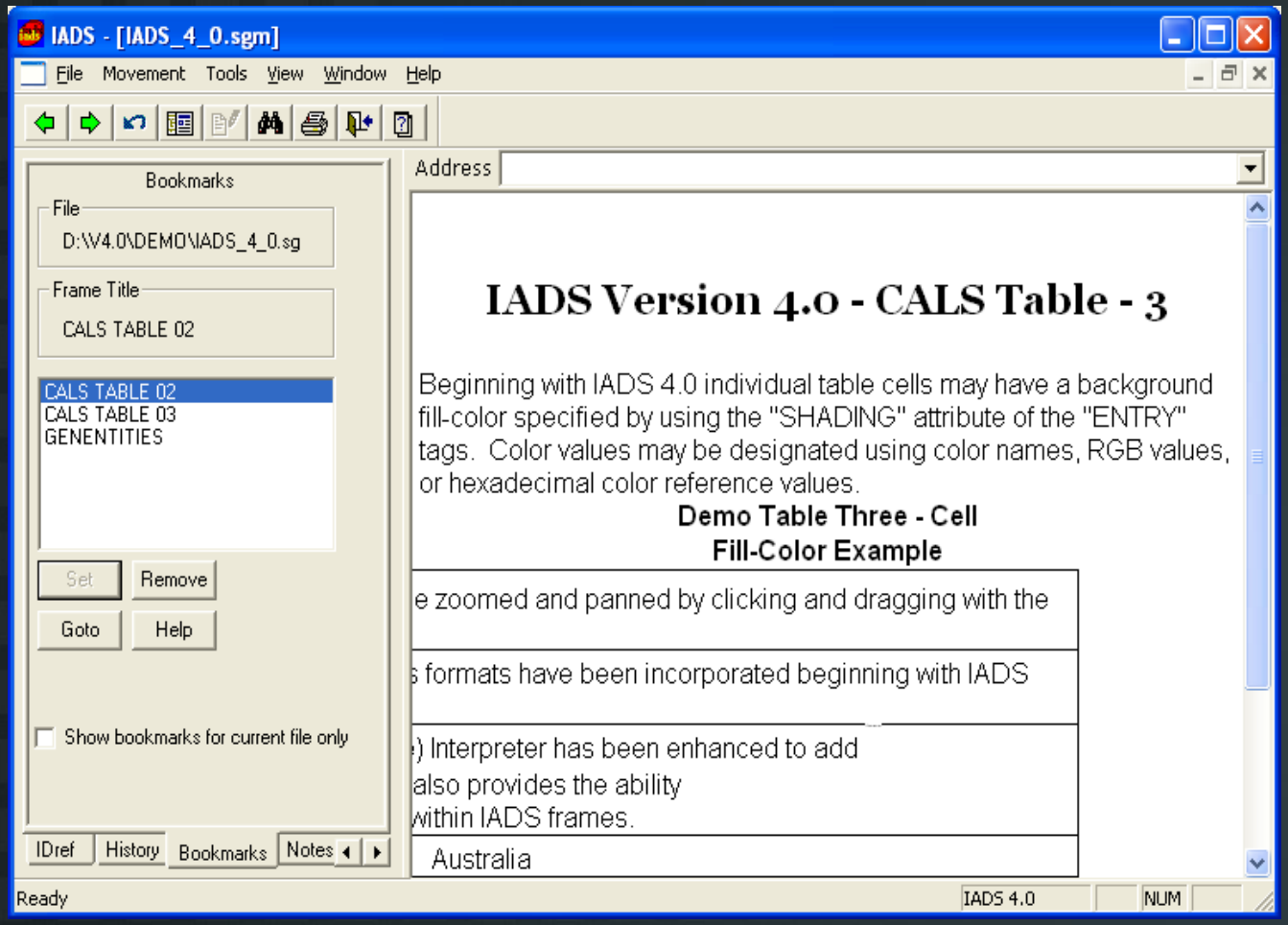
```
XmlValidatingReader *valReader = new XmlValidatingReader(tr);
valReader->ValidationType = ValidationType::Auto;
valReader->Schemas->Add(myXmlSchemaCollection);

try
{
      myXmlDataDocument->Load(valReader);
}
catch(System::Exception *e)
{
      CString strError = e->Message->ToString();
      AfxMessageBox(strError);
      myFile->Close();
      return(_FAILED_);
}
```

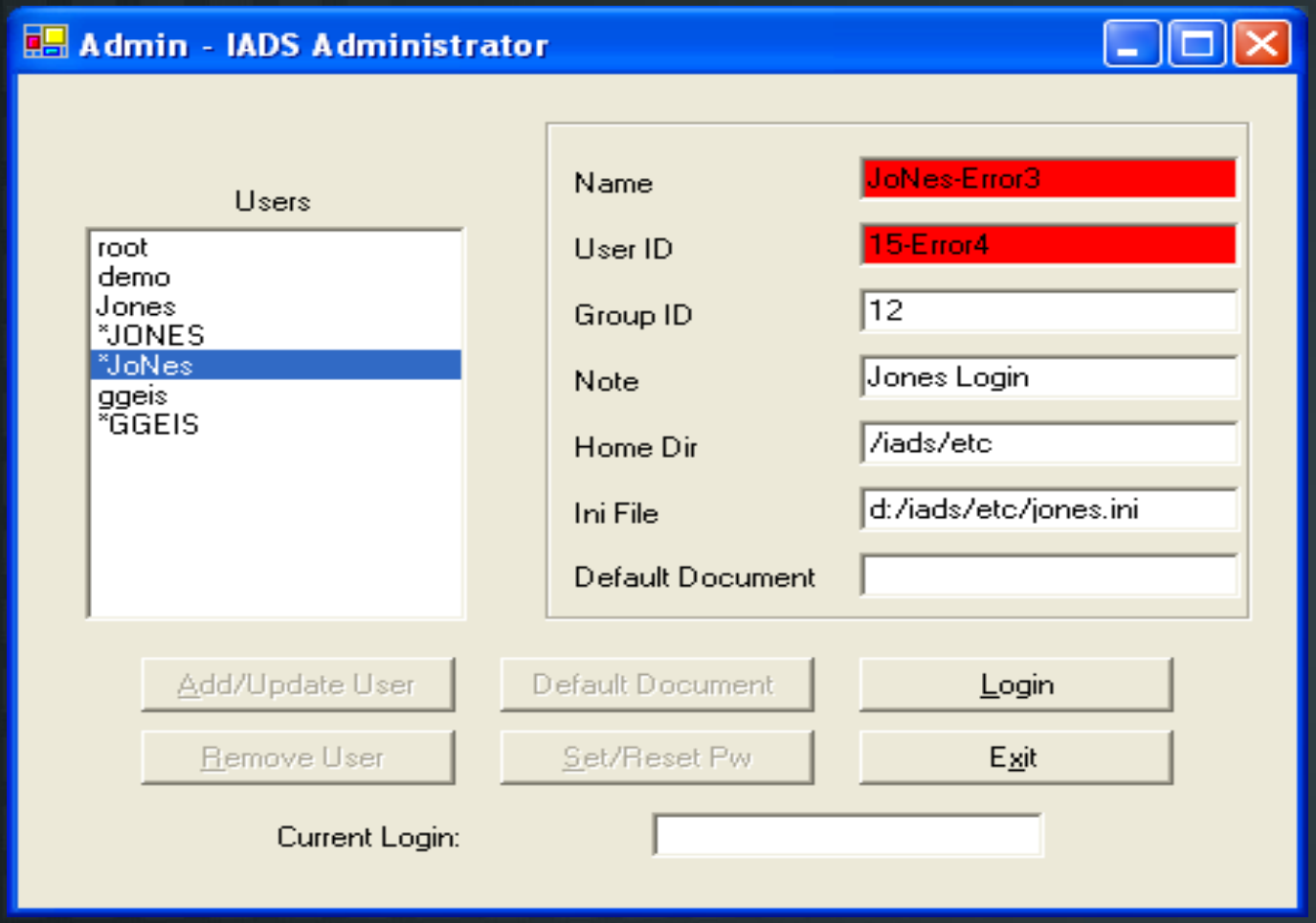
Notes


IADS - [IADS_4_0.sgm]
File Movement Tools View Window Help
User notes
This is a private note attached to frame w
Save
New Private
New Public
Print
Help
Private notes:
This is a private note attached ...
Modify
Remove
Goto
Purge
User: ggeis
Public notes:
This is a public note attached t...
Modify
Remove
Goto
History
Bookmarks
Notes
TOC
Address
IADS Version 4.0 - CALS Table - 3
Beginning with IADS 4.0 individual table cells may have a background fill-color specified by using the "SHADING" attribute of the "ENTRY" tags. Color values may be designated using color names, RGB values, or hexadecimal color reference values.
Demo Table Three - Cell Fill-Color Example
y be zoomed and panned by clicking and dragging with the
ics formats have been incorporated beginning with IADS
file) Interpreter has been enhanced to add
.0 also provides the ability
s within IADS frames.
Australia
y be zoomed and panned by clicking and dragging with the
Show me the tagging for this example
Ready
IADS 4.0
NUM

Bookmarks


IADS - [IADS_4_0.sgm]
File Movement Tools View Window Help
Bookmarks
File
D:\V4.0\DEMO\IADS_4_0.sg
Frame Title
CALS TABLE 02
CALS TABLE 02
CALS TABLE 03
GENENTITIES
Set
Remove
Goto
Help
Show bookmarks for current file only
IDref
History
Bookmarks
Notes
Address
IADS Version 4.0 - CALS Table - 3
Beginning with IADS 4.0 individual table cells may have a background fill-color specified by using the "SHADING" attribute of the "ENTRY" tags. Color values may be designated using color names, RGB values, or hexadecimal color reference values.
Demo Table Three - Cell Fill-Color Example
e zoomed and panned by clicking and dragging with the
s formats have been incorporated beginning with IADS
) Interpreter has been enhanced to add
also provides the ability
within IADS frames.
Australia
Ready
IADS 4.0
NUM

Admin Function



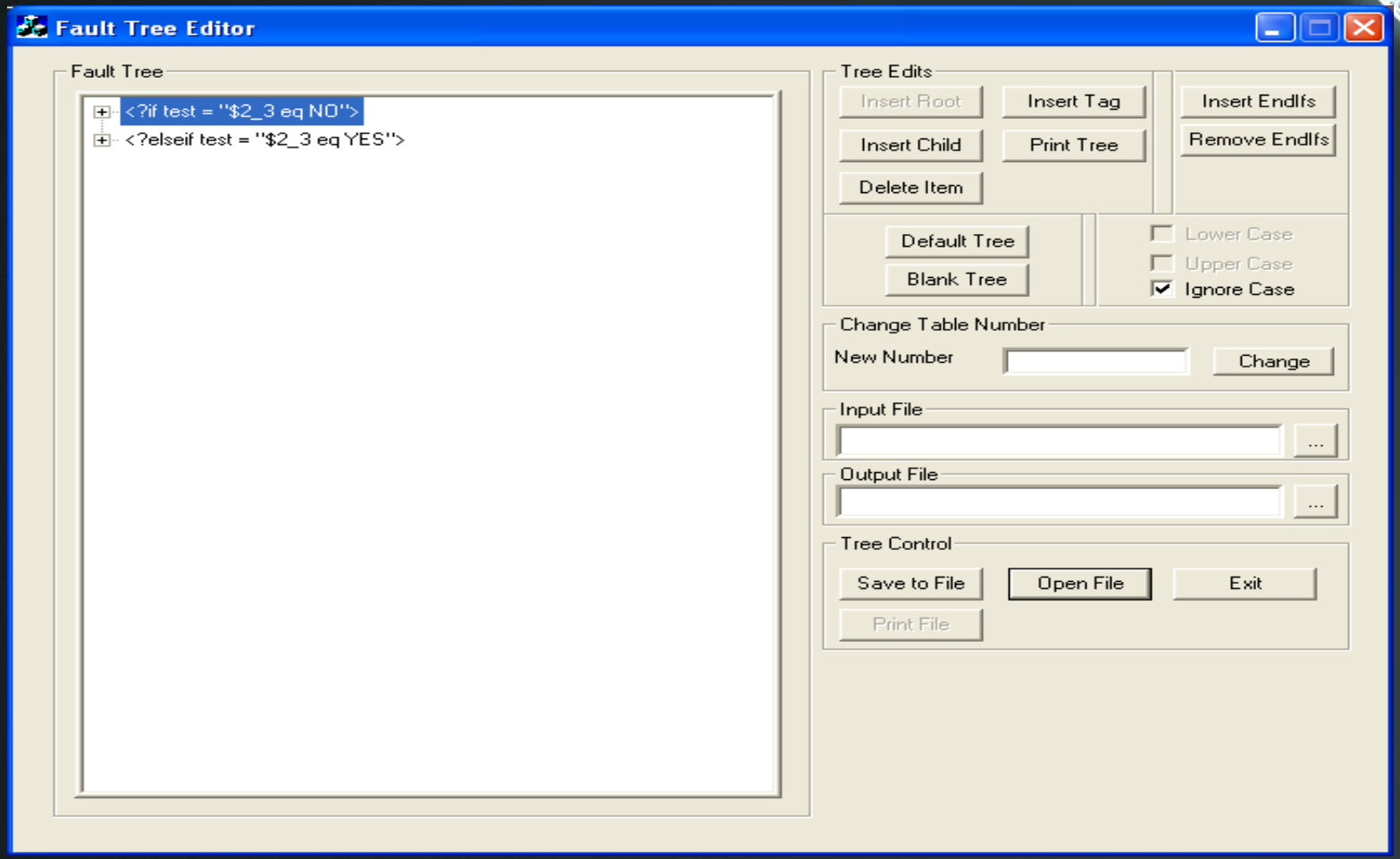
RPSTL V4.0 Proposals

- Database Redesign
  - Greater data coverage and flexibility
  - Single database file (no separate DBF, CDX, etc).
- XML Section 2 tag file
- Integrate RPSTL Edit tool into Author.
- Enhanced Hotspot Utility (if not V3.3).
- True ‘Web-enabled’ processing
  - Client/server processing over the Web
  - Possibly using a Web Service
- RPSTL Browsing
  - Activating a RPSTL independently of a TM_INFO file (through a file browser-type interface)

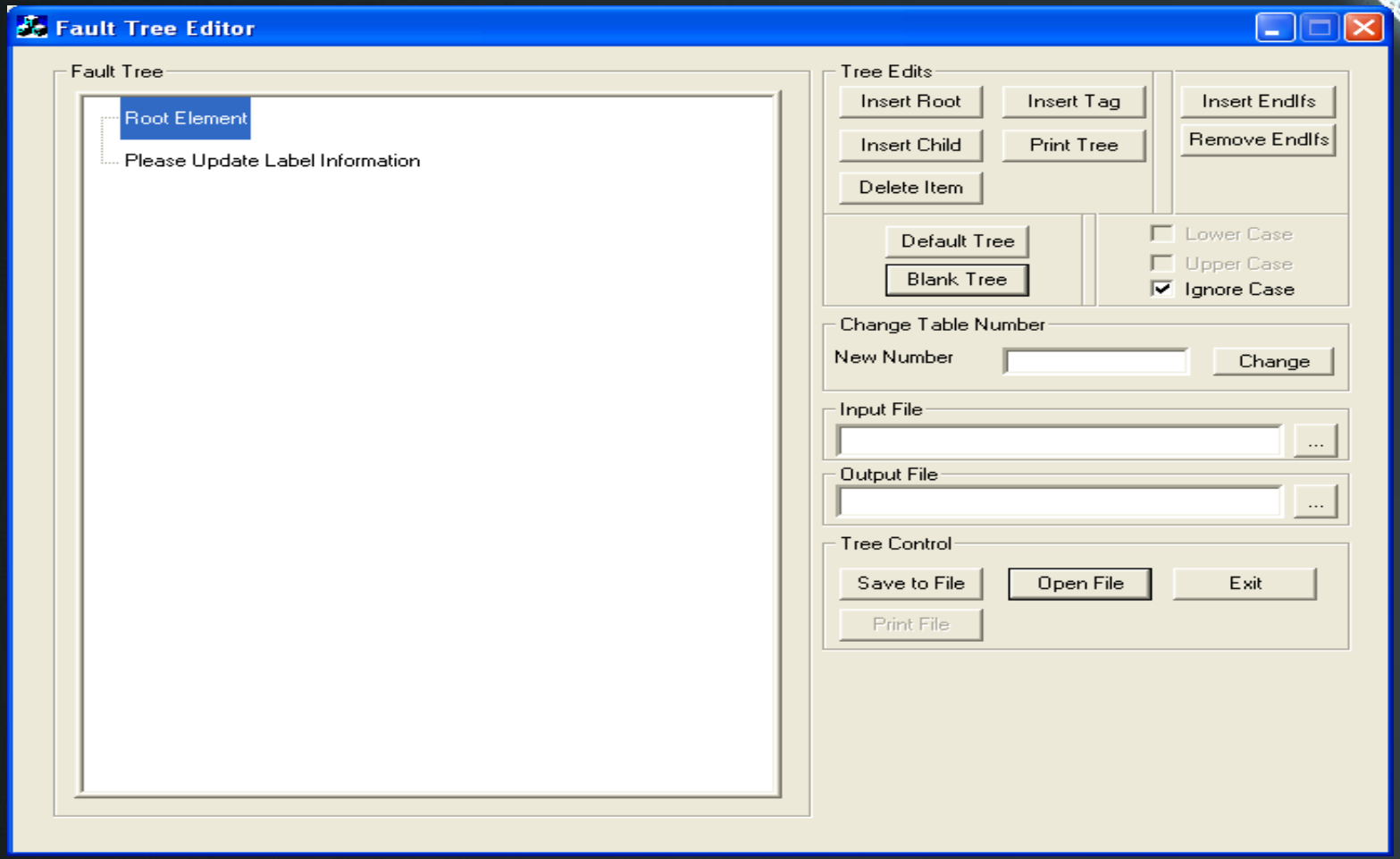
Possibilities

- Smart Client
- ASP.NET (Web Based)
- Web Services (RPSTL)
- Unix open source www.go-mono.com
- XML interfaces to other systems

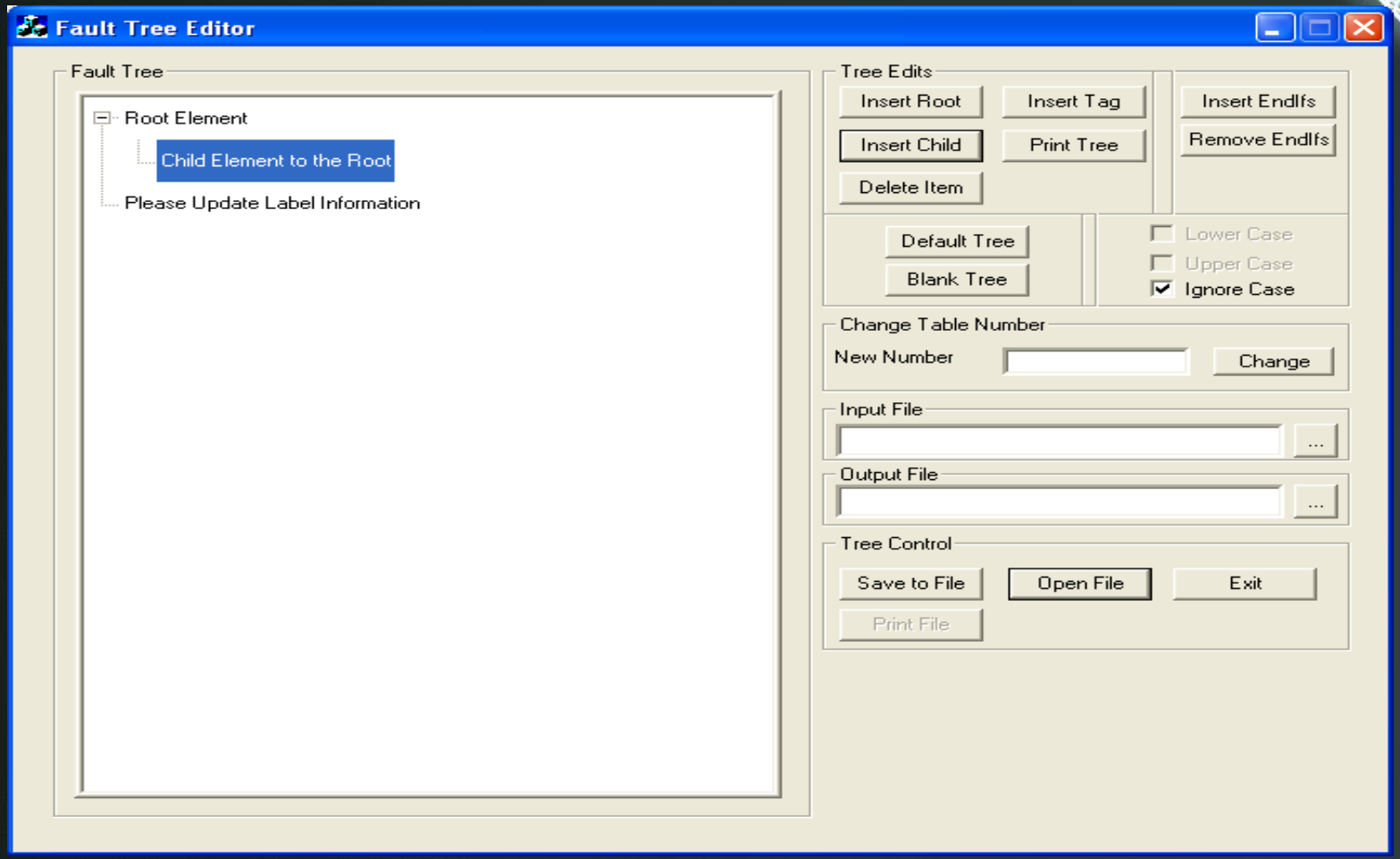
Tree **Editor**


Fault Tree Editor
Fault Tree
<?if test = "$2_3 eq NO">
<?elseif test = "$2_3 eq YES">
Tree Edits
Insert Root
Insert Tag
Insert Endlfs
Insert Child
Print Tree
Remove Endlfs
Delete Item
Default Tree
Blank Tree
Lower Case
Upper Case
Ignore Case
Change Table Number
New Number
Change
Input File
...
Output File
...
Tree Control
Save to File
Open File
Exit
Print File

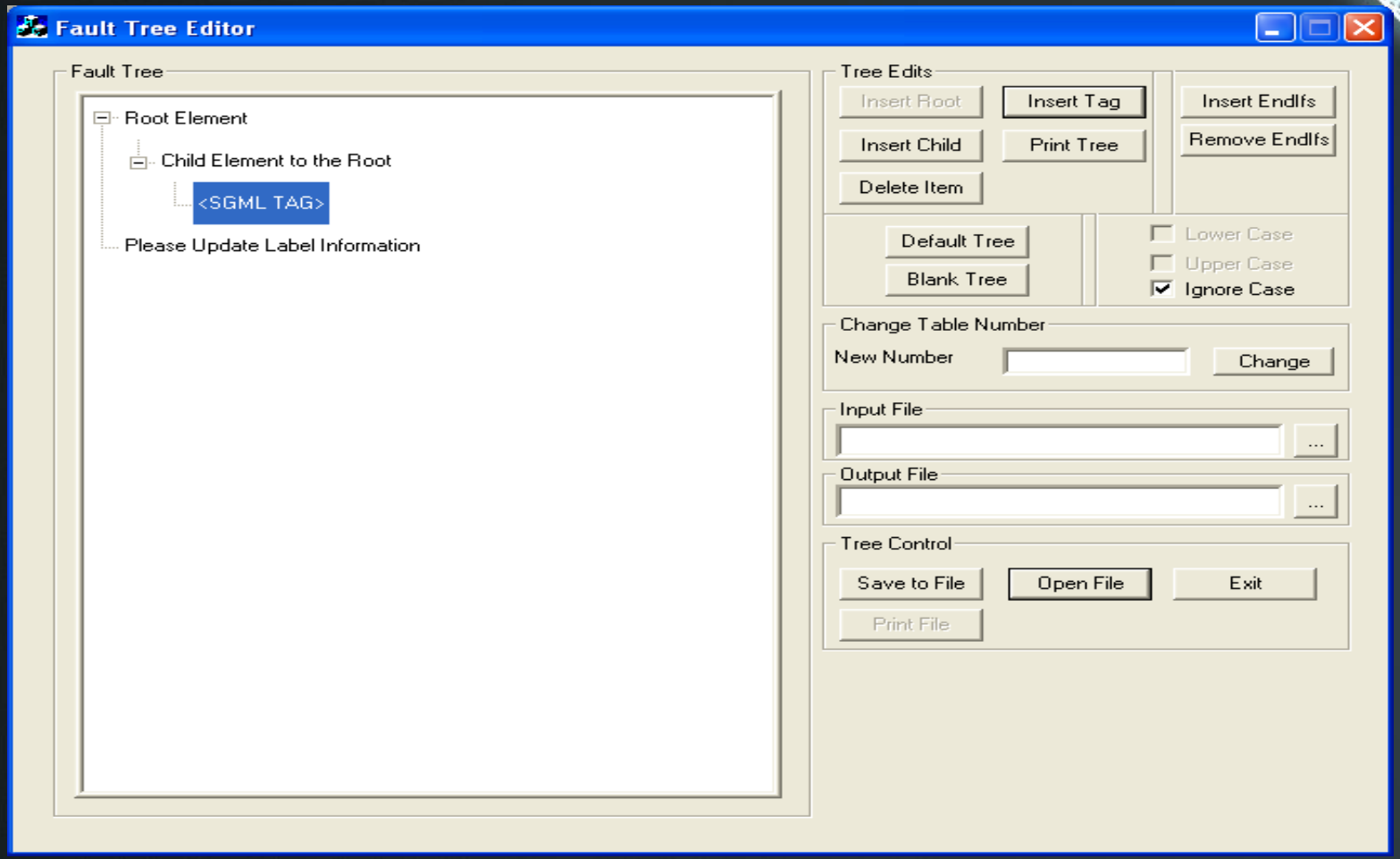
Blank **Tree**


Fault Tree Editor
Fault Tree
Root Element
Please Update Label Information
Tree Edits
Insert Root
Insert Tag
Insert Endlfs
Insert Child
Print Tree
Remove Endlfs
Delete Item
Default Tree
Blank Tree
Lower Case
Upper Case
Ignore Case
Change Table Number
New Number
Change
Input File
...
Output File
...
Tree Control
Save to File
Open File
Exit
Print File

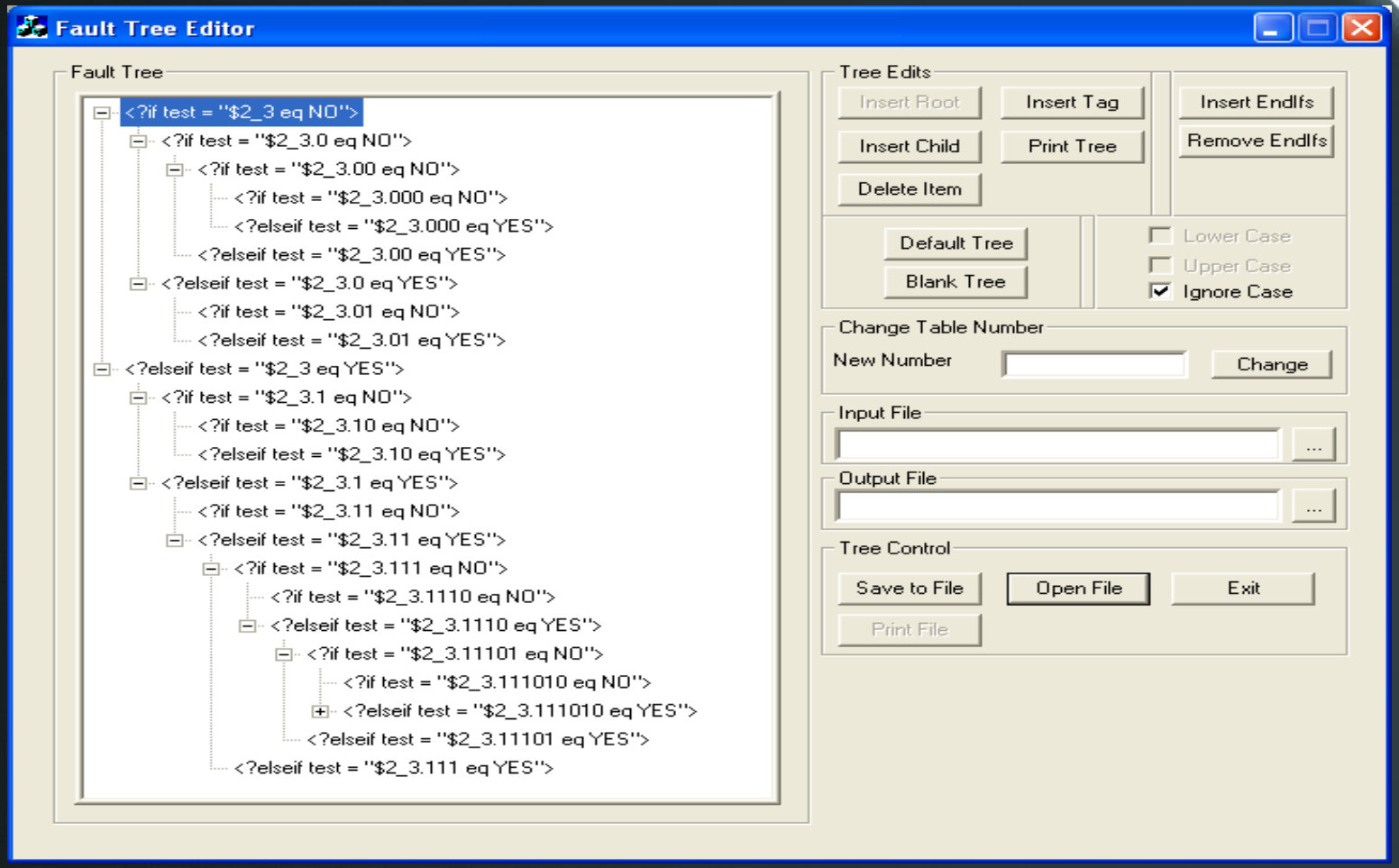
Child Element



SGML TAG


Fault Tree Editor
Fault Tree
Root Element
Child Element to the Root
<SGML TAG>
Please Update Label Information
Tree Edits
Insert Root
Insert Tag
Insert Endlfs
Insert Child
Print Tree
Remove Endlfs
Delete Item
Default Tree
Blank Tree
Lower Case
Upper Case
Ignore Case
Change Table Number
New Number
Change
Input File
...
Output File
...
Tree Control
Save to File
Open File
Exit
Print File

Default Tree



Change Table **Number**